

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P675616

Luminaire Tested: **CCW-SA-2B-835-U-SL3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675616  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-835-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL3 distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

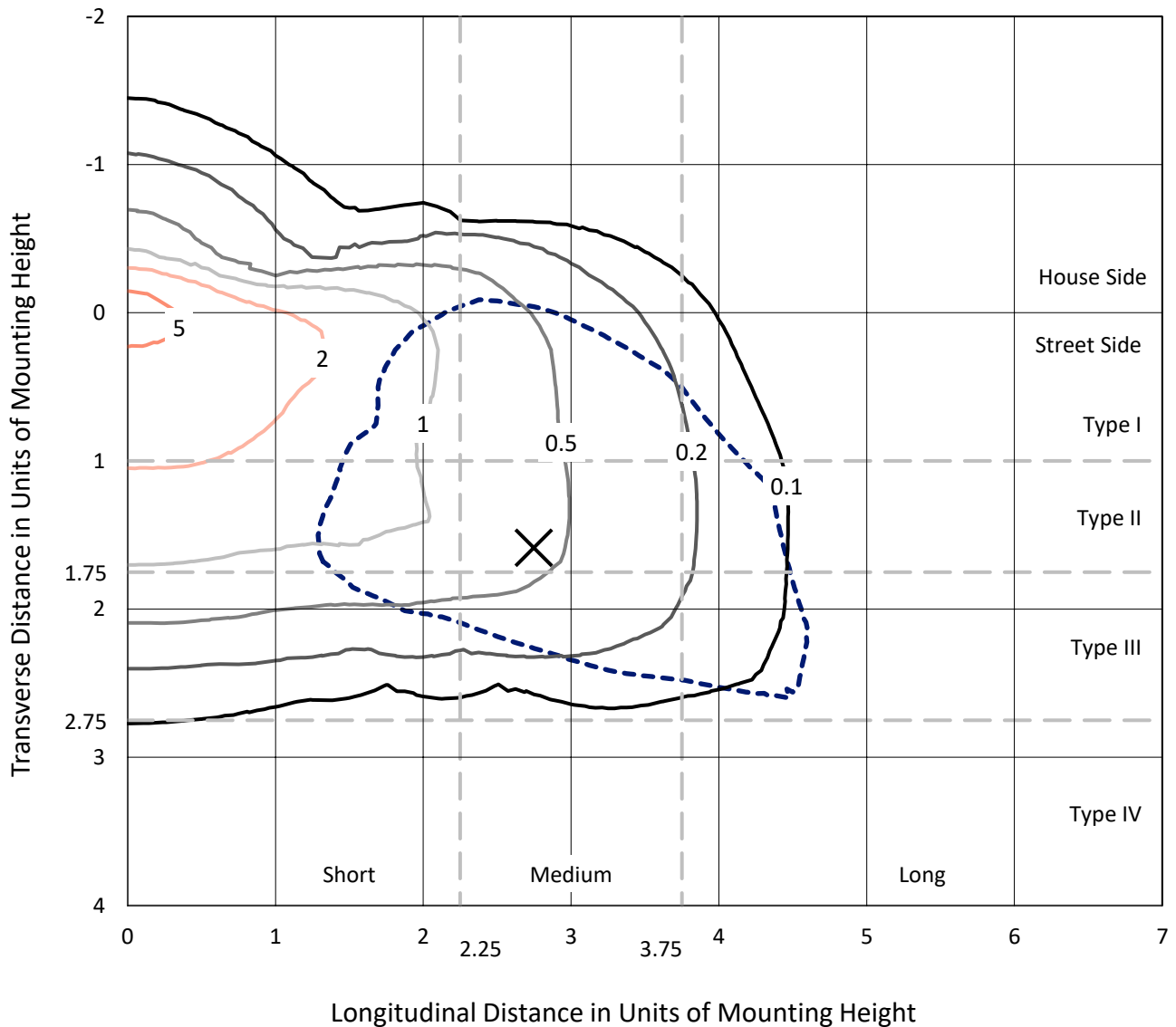
Lumens per Lamp: N/A  
Luminaire Lumens: 5626.6 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

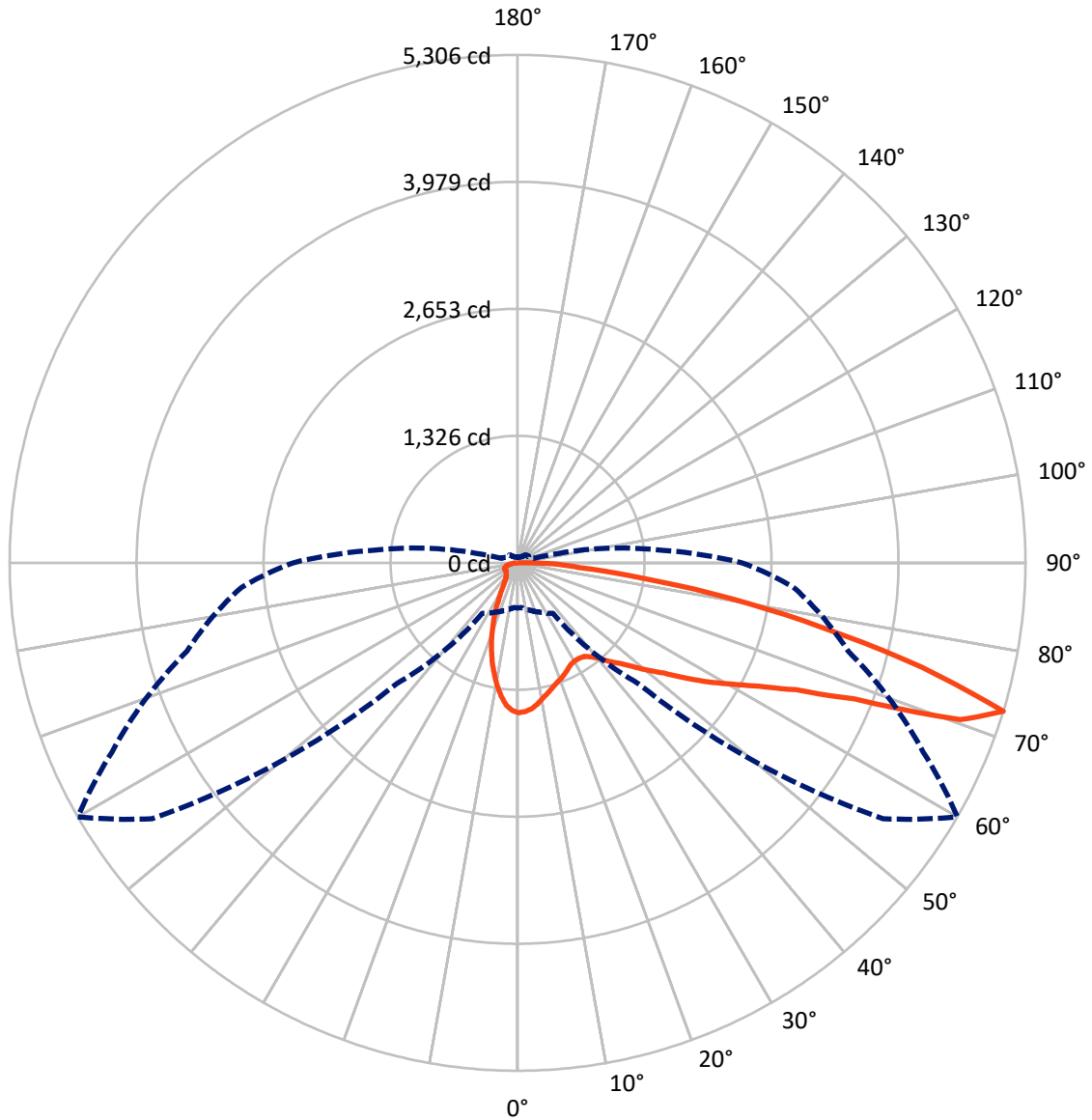
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	966.6	0.0	966.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	4660.1	0.0	4660.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	5626.6	0.0	5626.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	2.4
10°-20°	307.9	5.5
20°-30°	394.1	7.0
30°-40°	504.2	9.0
40°-50°	691.5	12.3
50°-60°	1000.2	17.8
60°-70°	1372.0	24.4
70°-80°	1029.6	18.3
80°-90°	191.4	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5626.6	100.0
0°-180°	5626.6	100.0

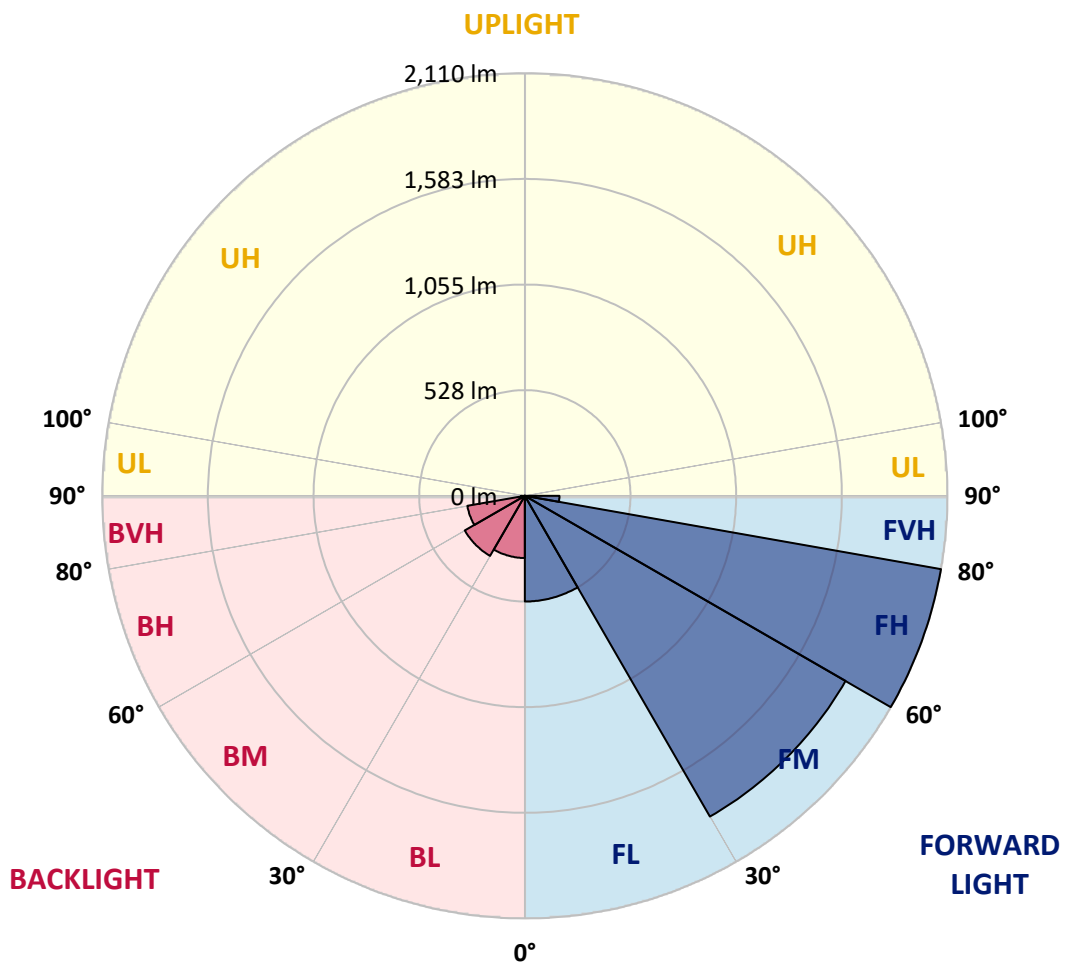


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.6	9.4			
FM (30°-60°)	1849.4	32.9			
FH (60°-80°)	2110.3	37.5			G2/5000
FVH (80°-90°)	172.7	3.1			G2/225
BL (0°-30°)	310.3	5.5	B1/500		
BM (30°-60°)	346.4	6.2	B1/1000		
BH (60°-80°)	291.3	5.2	B1/500		G1/500
BVH (80°-90°)	18.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1533.2	1547.9	1552.1	1552.1	1564.6	1550.0	1570.9	1554.2	1558.4	1564.6	1560.5
5°	1459.9	1485.1	1470.4	1497.6	1487.1	1506.0	1531.1	1531.1	1524.8	1537.4	1526.9
7.5°	1388.7	1380.3	1405.5	1405.5	1422.2	1447.3	1468.3	1489.2	1491.3	1495.5	1493.4
10°	1292.3	1302.8	1315.4	1332.1	1353.1	1378.2	1422.2	1439.0	1443.2	1468.3	1462.0
12.5°	1212.8	1227.4	1235.8	1269.3	1288.2	1323.8	1374.0	1397.1	1399.2	1434.8	1434.8
15°	1154.1	1162.5	1181.3	1193.9	1235.8	1286.1	1334.2	1355.2	1378.2	1415.9	1405.5
17.5°	1114.3	1124.8	1133.2	1149.9	1189.7	1231.6	1307.0	1319.6	1346.8	1401.3	1388.7
20°	1091.3	1093.4	1105.9	1116.4	1152.0	1191.8	1258.8	1292.3	1328.0	1376.1	1363.6
22.5°	1095.5	1087.1	1085.0	1099.6	1105.9	1143.6	1225.3	1260.9	1311.2	1367.8	1346.8
25°	1103.8	1105.9	1101.7	1089.2	1091.3	1124.8	1179.2	1225.3	1281.9	1365.7	1323.8
27.5°	1124.8	1135.3	1118.5	1105.9	1093.4	1105.9	1162.5	1196.0	1258.8	1376.1	1321.7
30°	1145.7	1156.2	1152.0	1133.2	1108.0	1103.8	1143.6	1185.5	1246.3	1384.5	1321.7
32.5°	1177.1	1191.8	1177.1	1183.4	1154.1	1135.3	1149.9	1187.6	1258.8	1413.8	1323.8
35°	1212.8	1225.3	1229.5	1214.9	1208.6	1173.0	1181.3	1200.2	1271.4	1447.3	1344.7
37.5°	1252.6	1267.2	1279.8	1281.9	1260.9	1240.0	1235.8	1246.3	1302.8	1506.0	1367.8
40°	1279.8	1288.2	1313.3	1334.2	1340.5	1311.2	1309.1	1309.1	1359.4	1558.4	1409.6
42.5°	1325.9	1321.7	1357.3	1395.0	1405.5	1388.7	1392.9	1409.6	1439.0	1633.8	1476.7
45°	1348.9	1344.7	1386.6	1449.4	1497.6	1489.2	1493.4	1499.7	1526.9	1753.2	1589.8
47.5°	1380.3	1384.5	1445.3	1516.5	1566.7	1596.1	1619.1	1617.0	1638.0	1874.6	1715.5
50°	1411.7	1420.1	1493.4	1568.8	1656.8	1707.1	1740.6	1763.6	1784.6	2002.4	1860.0
52.5°	1472.5	1480.9	1562.5	1644.2	1757.3	1830.7	1914.4	1912.3	1914.4	2130.2	2004.5
55°	1560.5	1562.5	1610.7	1705.0	1857.9	1991.9	2107.1	2119.7	2084.1	2289.4	2170.0
57.5°	1661.0	1669.4	1711.3	1782.5	1937.5	2146.9	2322.9	2348.0	2251.7	2419.2	2320.8
60°	1755.2	1761.5	1826.5	1908.2	2075.7	2341.7	2540.7	2570.0	2465.3	2578.4	2477.9
62.5°	1648.4	1679.8	1795.0	1981.5	2318.7	2637.1	2817.2	2836.0	2672.7	2739.7	2645.4
65°	1319.6	1340.5	1506.0	1807.6	2335.4	3173.3	3244.5	3194.2	2957.5	2947.1	2898.9
67.5°	735.2	752.0	865.1	1181.3	1966.8	3374.4	4164.0	3795.4	3399.5	3259.2	3242.4
70°	580.2	584.4	599.0	664.0	1091.3	2974.3	4888.7	4905.5	4122.1	3688.5	3315.7
72.5°	471.3	469.2	513.2	569.7	645.1	1784.6	4660.4	5305.5	4675.1	3575.4	2888.4
75°	360.3	366.5	423.1	504.8	590.7	839.9	3477.0	4365.1	4379.7	3332.5	2436.0
77.5°	274.4	276.5	339.3	446.1	578.1	592.8	2268.4	3252.9	3267.5	2580.5	1342.6
80°	205.3	205.3	257.6	377.0	563.4	546.7	1397.1	2255.9	2042.2	906.9	293.2
82.5°	117.3	125.7	171.8	287.0	511.1	525.7	787.6	1292.3	863.0	247.2	136.1
85°	62.8	64.9	104.7	192.7	421.0	502.7	601.1	643.0	343.5	132.0	62.8
87.5°	23.0	23.0	48.2	98.4	266.0	372.8	477.6	410.5	196.9	60.7	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1564.6	1556.3	1550.0	1556.3	1533.2	1522.8	1535.3	1529.0	1516.5	1510.2	1506.0
5°	1533.2	1522.8	1512.3	1506.0	1480.9	1455.7	1443.2	1418.0	1397.1	1403.4	1390.8
7.5°	1499.7	1489.2	1457.8	1428.5	1378.2	1328.0	1304.9	1269.3	1256.7	1246.3	1240.0
10°	1457.8	1439.0	1390.8	1332.1	1258.8	1202.3	1143.6	1101.7	1057.8	1038.9	1045.2
12.5°	1405.5	1395.0	1319.6	1229.5	1126.9	1032.6	963.5	896.5	837.8	806.4	798.0
15°	1382.4	1351.0	1242.1	1122.7	992.8	875.5	772.9	655.6	586.5	553.0	553.0
17.5°	1357.3	1298.6	1168.8	1005.4	856.7	705.9	561.3	454.5	400.1	381.2	381.2
20°	1317.5	1252.6	1082.9	894.4	714.2	532.0	402.2	343.5	326.8	314.2	316.3
22.5°	1288.2	1208.6	1003.3	785.5	565.5	395.9	316.3	297.4	291.1	287.0	289.1
25°	1254.6	1156.2	919.5	668.2	444.0	312.1	274.4	266.0	270.2	272.3	272.3
27.5°	1227.4	1112.2	833.6	542.5	335.1	263.9	247.2	245.1	253.4	257.6	259.7
30°	1208.6	1072.4	749.9	427.3	268.1	234.6	226.2	226.2	236.7	240.9	243.0
32.5°	1189.7	1038.9	659.8	326.8	228.3	209.5	207.4	209.5	215.7	215.7	217.8
35°	1196.0	1007.5	573.9	263.9	205.3	192.7	192.7	192.7	194.8	196.9	196.9
37.5°	1208.6	999.1	481.8	222.0	188.5	180.1	180.1	178.0	180.1	178.0	180.1
40°	1221.1	986.5	398.0	196.9	178.0	171.8	169.7	165.5	163.4	163.4	165.5
42.5°	1273.5	1003.3	326.8	180.1	169.7	165.5	159.2	155.0	152.9	152.9	152.9
45°	1340.5	1034.7	270.2	171.8	163.4	152.9	148.7	146.6	142.4	144.5	146.6
47.5°	1441.1	1082.9	236.7	165.5	157.1	144.5	140.3	136.1	136.1	140.3	140.3
50°	1573.0	1162.5	215.7	159.2	150.8	138.2	132.0	129.9	129.9	136.1	136.1
52.5°	1715.5	1254.6	207.4	157.1	144.5	132.0	125.7	123.6	123.6	132.0	132.0
55°	1857.9	1367.8	213.6	157.1	140.3	125.7	119.4	115.2	117.3	123.6	123.6
57.5°	2015.0	1489.2	245.1	157.1	136.1	123.6	115.2	108.9	111.0	113.1	113.1
60°	2186.7	1648.4	299.5	157.1	134.1	119.4	108.9	100.5	100.5	102.6	102.6
62.5°	2360.6	1805.5	377.0	159.2	136.1	117.3	100.5	92.2	90.1	92.2	92.2
65°	2588.9	2056.9	454.5	159.2	142.4	113.1	94.3	83.8	81.7	81.7	83.8
67.5°	2909.4	2237.0	351.9	152.9	146.6	113.1	88.0	77.5	73.3	73.3	73.3
70°	2739.7	1887.2	224.1	142.4	140.3	117.3	83.8	71.2	67.0	64.9	64.9
72.5°	2345.9	1510.2	180.1	134.1	129.9	115.2	79.6	67.0	60.7	58.6	58.6
75°	1880.9	1191.8	157.1	121.5	113.1	96.4	73.3	60.7	56.6	52.4	52.4
77.5°	921.6	498.5	119.4	106.8	96.4	73.3	64.9	56.6	50.3	46.1	46.1
80°	230.4	173.8	88.0	83.8	71.2	56.6	52.4	48.2	44.0	39.8	39.8
82.5°	123.6	102.6	62.8	56.6	48.2	39.8	39.8	37.7	35.6	31.4	29.3
85°	62.8	60.7	41.9	37.7	31.4	25.1	27.2	27.2	25.1	18.9	18.9
87.5°	33.5	33.5	20.9	16.8	14.7	12.6	12.6	12.6	10.5	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)